# JAVA.LANG.SHORT CLASS

## Introduction

The **java.lang.Short** class wraps a value of primitive type short in an object. An object of type Short contains a single field whose type is short.

## Class declaration

Following is the declaration for **java.lang.Short** class:

```
public final class Short
  extends Number
    implements Comparable<Short>
```

## Field

Following are the fields for **java.lang.Short** class:

- **static short MAX_VALUE** -- This is the constant holding the maximum value a short can have, $2^{15}-1$.

- **static short MIN_VALUE** -- This is the constant holding the minimum value a short can have, $-2^{15}$.

- **static int SIZE** -- This is the number of bits used to represent a short value in two's complement binary form.

- **static Class<Short> TYPE** -- This is the Class instance representing the primitive type short.

## Class constructors

| S.N. | Constructor & Description |
|------|---------------------------|
| 1 | **Short(short value)** <br> This constructs a newly allocated Short object that represents the specified short value. |
| 2 | **Short(String s)** <br> This constructs a newly allocated Short object that represents the short value indicated by the String parameter. |

## Class methods

| S.N. | Method & Description |
|------|---------------------|
| 1 | byte byteValue() <br> This method returns the value of this Short as a byte. |
| 2 | int compareTo(Short anotherShort) <br> This method compares two Short objects numerically. |
| 3 | static Short decode(String nm) |

| | This method decodes a String into a Short. |
|---|---|
| 4 | double doubleValue() <br> This method returns the value of this Short as a double. |
| 5 | boolean equals(Object obj) <br> This method compares this object to the specified object. |
| 6 | float floatValue() <br> This method returns the value of this Short as a float. |
| 7 | int hashCode() <br> This method returns a hash code for this Short. |
| 8 | int intValue() <br> This method returns the value of this Short as an int. |
| 9 | long longValue() <br> This method returns the value of this Short as a long. |
| 10 | static short parseShort(String s) <br> This method parses the string argument as a signed decimal short. |
| 11 | static short parseShort(String s, int radix) <br> This method parses the string argument as a signed short in the radix specified by the second argument. |
| 12 | static short reverseBytes(short i) <br> This method returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified short value. |
| 13 | short shortValue() <br> This method returns the value of this Short as a short. |
| 14 | String toString() <br> This method returns a String object representing this Short's value. |
| 15 | static String toString(short s) <br> This method returns a new String object representing the specified short. |
| 16 | static Short valueOf(short s) <br> This method returns a Short instance representing the specified short value. |
| 17 | static Short valueOf(String s) <br> This method returns a Short instance representing the specified short value. |
| 18 | static Short valueOf(String s, int radix) <br> This method returns a Short object holding the value extracted from the specified String when parsed with the radix given by the second argument. |

## Methods inherited

This class inherits methods from the following classes:

- java.lang.Object